ASHWIN G

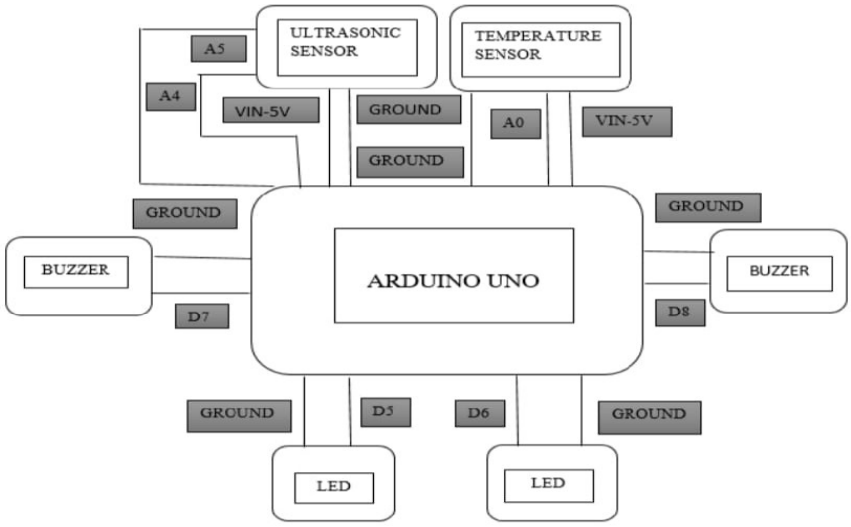
711319EC012

BATCH NO:B8-2A4E

```
int P=4;
int Q=5;

void setup()
{
  Serial.begin(9600);
  pinMode(P,OUTPUT);
  pinMode(Q,INPUT);
  pinMode(10,OUTPUT);
}

void loop()
{
  //ultrasonic sensor
  digitalWrite(P,LOW);
  digitalWrite(P,HIGH);
  delayMicroseconds(10);
  digitalWrite(P,LOW);
  float A=pulseIn(Q,HIGH);
  float B=(A*0.0343)/2;
  Serial.print("Distance is: ");
  Serial.println(B);

   //LED ON
  if(B>=150)
  {
    digitalWrite(5,HIGH);
```

```
  digitalWrite(6,HIGH);
}

//Buzzer For ultrasonic Sensor
if(B>=150)
{
for(int i=0; i<=30000; i=i+10)
{
tone(12,i);
delay(1000);
noTone(12);
delay(1000);
}
}




  //Temperate Sensor
double X= analogRead(A0);
double Y=(((X/1024)*5)-0.5)*100;
Serial.print("Temp Value: ");
Serial.println(Y);
delay(1000);



//LED ON
if(Y>=120)
{
  digitalWrite(5,HIGH);
  digitalWrite(6,HIGH);
```

```
}

//Buzzer for Temperature Sensor
if(Y>=120)
{
for(int i=0; i<=30000; i=i+10)
{
tone(12,i);
delay(1000);
noTone(12);
delay(1000);
}
}

 //LED OFF
if(Y<120)
{
  digitalWrite(5,LOW);
  digitalWrite(6,LOW);
}
```


ULTRASONIC SENSOR
TEMPERATURE SENSOR
A5
A4
VIN-5V
GROUND
GROUND
A0
VIN-5V
GROUND
GROUND
BUZZER
ARDUINO UNO
BUZZER
D7
D8
GROUND
D5
D6
GROUND
LED
LED

}